

IN THE CLAIMS:

Although not amended herein, the text of all pending claims is set forth below.

1. (PREVIOUSLY PRESENTED) An image fixing device of an image forming apparatus comprising:

a pressure roller;

a heating member;

a heating roller, the heating member being installed therein, to rotate with the pressure roller to fix a developed image to a fed paper by applying heat generated by the heating member, wherein the heating roller is a heat pipe of a closed tube type, wherein the heat pipe of the closed tube type forms a closed space therein and has distilled water inside of the closed space;

a temperature sensor to detect a temperature of the heating roller; and

a control unit to control a power supplied to the heating roller based upon the detected temperature,

wherein the heating member and the heating roller rotate in opposite directions.

2. (CANCELLED)

3. (ORIGINAL) The image fixing device according to claim 1, wherein the heating member is an induction heating body to generate a magnetic field in the heating roller.

4. (ORIGINAL) The image fixing device according to claim 1, wherein the heating roller rotates separately from the heating member.

5. (PREVIOUSLY PRESENTED) An apparatus comprising:

a roller to rotate about an axis to fix a toner image to a paper, the roller comprising an outer surface having a uniform surface temperature in a direction of the axis;

a heater to heat the outer surface to the uniform surface temperature.

a temperature sensor to detect a current temperature of the roller; and

a control unit to control a power supplied to the roller based upon the detected temperature to thereby maintain the uniform surface temperature,

wherein the roller is a heat pipe of a closed tube type, heat pipe of the closed tube type

forms a closed space therein and has distilled water inside of the closed space, and the heater and the roller rotate in opposite directions.

6. (CANCELLED)

7. (PREVIOUSLY PRESENTED) The apparatus according to claim 5, wherein the roller further comprises:

an outer conductor forming the outer surface; and

an inner conductor to form a space with the outer conductor.

8. (CANCELLED)

9. (PREVIOUSLY PRESENTED) The apparatus according to claim 5, wherein the heater heats the distilled water in the space.

10. (ORIGINAL) The apparatus according to claim 9, wherein the heater is a heating coil, and the inner conductor generates heat in response to a change in a magnetic field generated by the heating coil.

11. (PREVIOUSLY PRESENTED) The apparatus according to claim 5, wherein the distilled water changes phase according to the heat generated by the inner conductor.

12. (ORIGINAL) The apparatus according to claim 9, wherein the roller rotates separately from the heater.

13. (CANCELLED)

14. (PREVIOUSLY PRESENTED) An apparatus comprising:

a roller to rotate about an axis to fix a toner image to a paper, the roller comprising an outer surface having a uniform surface temperature in a direction of the axis; and

a heater to heat the outer surface to the uniform surface temperature, wherein the heater and the roller rotate in opposite directions.

15. (ORIGINAL) The apparatus according to claim 11, wherein the phase changed working fluid is circulated within the space.

16. (PREVIOUSLY PRESENTED) An image fixing device of an image forming apparatus comprising:

a pressure roller;

an induction heating coil; and

a heating roller, the induction heating coil being installed therein, to rotate with the pressure roller to fix a developed image to a fed paper by applying heat generated by the induction heating coil, wherein the heating roller is a heat pipe of a closed tube type, the induction heating coil and the heating roller rotating in opposite directions.

17. (PREVIOUSLY PRESENTED) An image forming apparatus, comprising:

a first roller to form an electrostatic latent image thereon;

a developer to develop the electrostatic latent image;

a second roller to transfer the developed image to a recording medium; and

a fixing device to fix the transferred image to the recording medium, comprising:

a third roller to rotate about an axis to fix a toner image to the recording medium, the third roller comprising an outer surface having a uniform surface temperature in a direction of the axis, and

a heater disposed within the third roller to heat the third roller,

the heater and the third roller rotating in opposite directions.